

## Product datasheet for **MR219027**

### **Fndc7 (NM\_177091) Mouse Tagged ORF Clone**

#### **Product data:**

|                                  |                        |
|----------------------------------|------------------------|
| <b>Product Type:</b>             | Expression Plasmids    |
| <b>Tag:</b>                      | Myc-DDK                |
| <b>Symbol:</b>                   | Fndc7                  |
| <b>Synonyms:</b>                 | E230011A21Rik          |
| <b>Mammalian Cell Selection:</b> | Neomycin               |
| <b>Vector:</b>                   | pCMV6-Entry (PS100001) |
| <b>E. coli Selection:</b>        | Kanamycin (25 ug/mL)   |



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ORF Nucleotide Sequence: >MR219027 representing NM\_177091  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCTGGAAGACCTGAGAAGTGTTCCTTTGATTAGATTCACTCTCCTCTGTCTGAAAAATGGTTATTT  
CATCTAAAACAGCTCCTGAAATACCAACTATTGATCAGGCCTATTCAAAAATCAGCAATAGTATCACCGT  
AGAATGGACTACCGTGCCAGGGGCCACAAGTTACTTGCTCAGAGCTGAAGATGGGAACACAATCATTGAG  
ACCACAGTGGCTAATCCCCAGGGACGGTGACAGGCCTGAAGGCTGCAACCTTGTACCAATCACCATCA  
GATCCATCAGCGCCTCTGGACAAAGCCAGGCATCATCTCAAAGCAGGCAAAGACAGTGTGGCTGCCCC  
AGTTCTGGAGGTTAGCTCTCCAAGTCCAGACTCAATCCTTGTGAGCTGGGACGCGGTATACATGGCGATC  
GGATTCTCCGTGTCTGTTATGCGAGCCAACGGCTTGGGTAGAATTTGGAAGAGAATACTACAAACACCT  
CCCTGACCTTCAGCAGTCTGGATGCCGGAACCTCTACACTATAAAGGCCTACGCGTGAATGCCAATGG  
AATCCCCGGGGATGACTCCACCCGCAATCAGAGAACCAGTCTCTGCCCCCTGCCAACATTCAAGTCTTC  
TTTGACAGCGGGGCCCTAAAGGCGTCTGTTTCGTGGACCCCGACAGAAGGAGCGTTCAACTACACTGTGG  
TGGCATCGAGTGATTCTTCCCAGCGCAGCTGCAGCACCACCTCTCAGCTCCTGTAGCATTAGTTCTCTGCA  
GTGTGGAACAGAGTACCTGATTTCTGTCTCAGCAAATAACGATGCTGGGTCCAGCAAGTCTGTCTGCA  
CCAACCCTGAAGACTGTTGCTGTGCACTGGAAGGGTGATGATCCAGGAAGAGCCCCCTGGTCACTTGT  
CTGTGGCTTGGTCCAATGTGGAGCTGGGTGACTATTATGTGGCTTTCGTGAAGAGTGATGACGGCTTGG  
GGTACACTGCAATACCTCCCTCACCAGTGCAACTTCTGTCTGAGTGTGGCTTACGTACTTCATTAGT  
GTGTTTGCCTATAACAAGGCAGGGCAGAGTCTCTGGCGATGATTCAATTACACTACAGTCCGTGTT  
GTCCTAATGACATTAGCCAGTGTGGTGCCAGTGACAGGGTGGAAATGCTGGTCTCCTGTGCGTGG  
TGCTGAACTCTATGAAACCAAGGCCATAGCTGGGTATAGCATTGTGGAGTGCAACGACACCGCTCCTGCT  
TGCACTCTCTCTGCTTGGATTGTGACACCAAGTACAACGTACAGTGTATTCTTTCAGTGAGGTCGAG  
GCAGCAATCTGTCATGCTCTTCCCACTTTATCACCACAGCTCCTTGCACTCTGAAATAAAAAATATTT  
GAAGGATGCATTCTCCATGATCAATGTGCACTGGCGGTCGACTAATGAAGGCGCCACTTACACGGTGACG  
GCCCAGGGCAAGAAGGGGCTGTTCCAGTGCAAGCAGCACCAGGGGAGACCTGCAGGATGGGGGGCTGCCCT  
GCGGCTCCATGTTCTCTGTCTGCTGTGGCCGAGACTCAGGCGGGAAAGAGCCTGCCAGCTACAGCGT  
GCCCCTGGAACAGTGCCCTGCTGTCCAGTGGTCTGACAGCAGCTCAGGTACCCAGTCTATAATCAAC  
GTGAGCTGGACTGCTGGGCGAGTGGCTCAAACCTATGCTGCACTGCTGGAGTCATACATCGGACAGTCTA  
AGTGTACACCCATCAAAACCACTGCCTTCTGGGATGCATCACATGTGGCATCAACTACACGGTGGCGTT  
AAAAGCCATTAGTTCACGGGACTGACTGCAGATTGTGCCTATCAAAGTACTCTTCTAGTGTCTGTTGC  
CCACTGGGGGTCAAATTATAGGCTGGGCCCTAATGGCATCCGGATCTACTGGCGAGCCTCCAGGGGCG  
CTGCCAATTATAGCACCAGCTCTATGGTTCAAAGGCATCTTTACATGTGCCCCACATGCCGTCTAAG  
TTTCTGTGACATCACCACATCCCCTGTGGGGACGTTTACACCGTGATGGTCTCACCAGTTGCTGAAACA  
GGACTGAAGCTTACTTTCTGCCAAAAAATACTCAGTTACCTGTTCTGGCAGTACTCTTGAATGG  
TGATTTACAGAGGAAGAGGAACGATACAGCGAGCCCCAGG

AGCGGACCGACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR219027 representing NM\_177091

Red=Cloning site Green=Tags(s)

MAGRPEKCFSLIRFTLLCLKMVISSKTAPEIPTIDQAYSKISNSITVEWTTVPGATSYLLTAEDGNTIIE  
TTVANSPGTVTGLKAATLYQITIRISISASGQSQASSPKQAKTVLAAPVLEVSSPSPDSILVSWDAVYMAI  
GFSVSVMRANGLGRIWKENTTNTSLTFSSLDAGTLYTIKAYAWNANGIPGDDSTRNQRTSPRAPANIQVF  
FDGALKASVSWPTGAFNYTVVASSDSSQSCSTLSSCISLQCGTEYLISVSANNDAGSSKSCSA  
PTLKTACAPGRVMIQEPPGHLVAVSNVELGDYYVAFVKSDDGLEVHCNTSLTQCNFLSECGFTYFIS  
VFAYNKAGQSPLGDVFNYYTAPCCPNDISPVLVSSDRVEIAWSPVRGAELYETKAIAGYSIVECNDTAPA  
CTLALDCDCKYNTVVSFSEVRGSLNLCSSHFITTAPCSPEIKNISKDAFMINVHWRSTNEGATYTVT  
AQGKKGLFQCSSTGETCRMGLPCGSMFSVTAVAETQAGKSLPSYSVPLETVPCCPAGLTAAQVTQSIIN  
VSWTAGAVAQTYAAVLESYIGQSKCHTHQNHCLLGCTCGINYYTVALKAISSSTGLTADCAYSYSSSVCC  
PLGVKLYRLGPNIRIYWRSRGAANYSTDLYGSKGIFTCAHAGLSFCDITNIPCGDVYTMVSPVAET  
GLKLTFCKPIYSVTCGSLGMVIYRGKNDTASPR

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

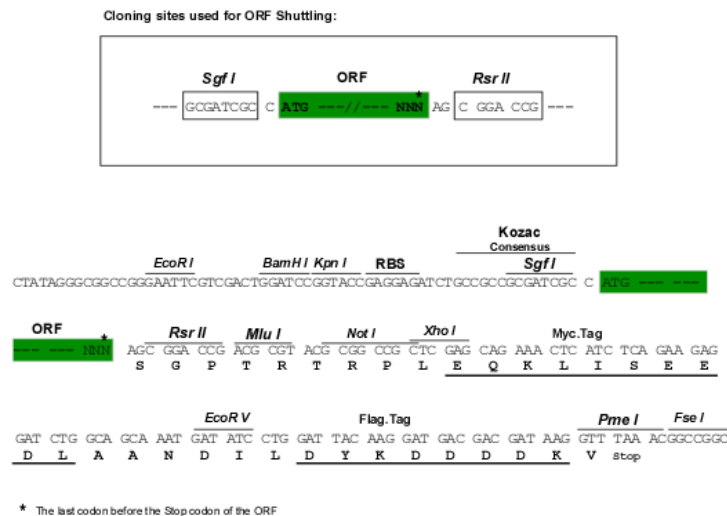
Chromatograms:

[https://cdn.origene.com/chromatograms/mm9093\\_a12.zip](https://cdn.origene.com/chromatograms/mm9093_a12.zip)

Restriction Sites:

SgfI-RsrII

Cloning Scheme:



ACCN:

NM\_177091

ORF Size:

2211 bp

OTI Disclaimer:

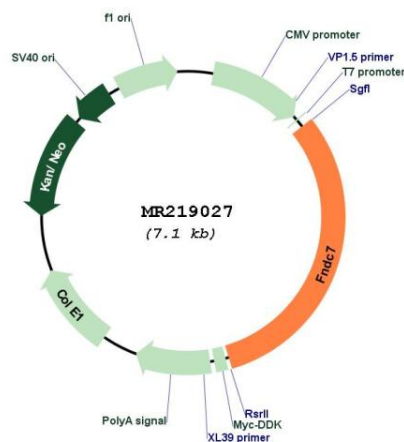
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:

This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Components:</b>            | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).                                                                                                                                                                                                                                                                                                                                    |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li> </ol> |
| <b>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>                | <u>NM_177091.5, NP_796065.2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq Size:</b>           | 5122 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 2214 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 320181                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>UniProt ID:</b>            | <u>A2AED3</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 3 F3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>MW:</b>                    | 78.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

**Product images:**



Circular map for MR219027